J. Electroanal. Chem., 349 (1993) 453
Elsevier Sequoia S.A., Lausanne

Author index

Andrieux, C.P. 299
Anson, F.C. 325

Barański, A. 341
Barthelmes, J. 223
Besombes, J.-L. 127
Bicamumpaka, B. 49
Blankenborg, S.G.J. 255
Bockris, J.O.M. 375
Budevski, E. 355
Buess-Herman, C. 93

Claes, P. 415
Conway, B.E. 233

Damaskin, B.B. 1, 31
De Keyzer, R. 311
De Levie, R. 15
Despić, A.R. 365
Doubova, L.M. 187

Engelman, E.E. 141
Evans, D.H. 141

Fanelli, N. 443
Fawcett, W.R. 273
Fedorovich, N.V. 1
Foresti, M.L. 113

Galus, Z. 341
Glibert, J. 415
Gomes, W.P. 429
Gu, P. 233
Guidelli, R. 113

Hapiot, P. 299
Hurwitz, H.D. 49

Innocenti, M. 113

Jenard, A. 49
Jović, V.D. 365

Karpinski, Z.J. 285
Kovač, S. 173
Kryska, A. 341

Lawrence, J. 73
Lipkowski, J. 211
Lorenz, W.J. 355

Minevski, L.V. 375
Mousset, G. 127
Mousty, C. 127
Moyaux, D. 415

Niki, K. 159

Obretenov, W. 355
Ociepa, J. 211
Opallo, M. 273
Osteryoung, R.A. 285

Parsons, R. 73
Petrii, O.A. 197
Pezzatini, G. 113
Plieth, W. 223
Pofahl, G. 223
Pospíšil, L. 443

Retter, U. 41

Safonov, V.A. 1
Sagara, T. 159
Savéant, J.-M. 299
Schmickler, W. 49
Sluyters, J.H. 255
Sluyters-Rehbach, M. 255
Staikov, G. 355
Stenina, E.V. 31
Stevanović, J.S. 365
Strubbe, K. 429
Sun, S.-G. 211
Svetličić, V. 173

Takagi, S. 159
Thomas, F.G. 81
Tomaić, J. 173
Trasatti, S. 187

Valcher, S. 187
Van der Linden, B. 311
Vassina, S.Y. 197
Vereecken, J. 311

Wandlowski, T. 15
Wu, S.-J. 211

Xie, Y. 325

Yang, D.-F. 211

Záliš, S. 443
Žutić, V. 173

J. Electroanal. Chem., 349 (1993) 455–460
Elsevier Sequoia S.A., Lausanne

Subject index

Acetonitrile adsorption
Adsorption of acetonitrile on polycrystalline Ag electrodes: comparison with Hg electrodes (Doubova et al.) 187
3-Acetylpyridine
Synergistic coadsorption of nicotinic acid and 3-acetylpyridine as studied by SERS (Barthelmes et al.) 223
Adamantane derivatives
Some properties of two-dimensional condensed layers formed by some terpenoids and adamantane derivatives at the mercury–electrolyte interface (Stenina, Damaskin) 31
Adsorbed hemin
Electroreflectance study of hemin adsorbed on a pyrolytic graphite electrode surface and its coadsorption with methylene blue (Sagara et al.) 159
Adsorption
A note on the adsorption of formate ion at the mercury/aqueous solution interphase (Lawrence, Parsons) 73
The adsorption of some benzopyrans at the mercury electrode–aqueous electrolyte interface (Thomas) 81
Adsorption at the mercury electrode in relation to micelle and mixed micelle formation. Case of electroreducible phenoxyalkyl sulfates and SDS (Besombes et al.) 127
Adsorption isotherms
Modelling of adsorption isotherms for condensed adsorption films at the metal–electrolyte interface using the Ising lattice gas model (Retter) 41
Adsorption kinetics
The condensation of 6-propyl-2-thiouracil at the mercury–electrolyte interface (Wandlowski, De Levie) 15
Alloys
On the mechanism of the passivity of aluminum and aluminum alloys (Bockris, Minevski) 375
Aluminum
On the mechanism of the passivity of aluminum and aluminum alloys (Bockris, Minevski) 375
Anodic decomposition
The effect of high LiCl concentrations upon the competition between anodic decomposition and stabilization of the n-GaAs/Fe^{2+} electrode (Strubbe, Gomes) 429
Anodic linear
Investigation of phase-transformation kinetics in electrodeposited Cu + Cd alloys using anodic linear sweep voltammetry (Stevanović et al.) 365
Aquatic environment
Heterocoalescence between dispersed organic microdroplets and a charged conductive interface (Žutić et al.) 173
Auger electron spectroscopy
Electrochemical, Auger electron spectroscopy and low energy electron diffraction studies of the stability of the Au(210) electrode surface in the presence of adsorbed pyridine (Sun et al.) 211

Benzopyrans
The adsorption of some benzopyrans at the mercury electrode–aqueous electrolyte interface (Thomas) 81

Capacity-potential curves
Some properties of two-dimensional condensed layers formed by some terpenoids and adamantane derivatives at the mercury–electrolyte interface (Stenina, Damaskin) 31
Carbonate melts
Dependence of the concentration of O(−I) on the partial pressures of oxygen and carbon dioxide in a molten $Li_2CO_3 + Na_2CO_3 + K_2CO_3$ eutectic mixture at 973 K (Moyaux et al.) 415

Caselli–Lipollis–Gierst method
Heterocoalescence between dispersed organic microdroplets and a charged conductive interface (Žutić et al.) 173
Charge transfer
Some specific features of the effect of multicharged cations on the electroreduction of anions (Damaskin et al.) 1
Charge-transfer kinetics
Charge-transfer kinetics of a system with weak reactant adsorption studied by the combination of demodulation and impedance voltammetry. Part 1. The $Tl^+/Tl(Hg)$ reaction in 1 M $HClO_4$ at the dropping mercury electrode (Blankenborg et al.) 255
Chemisorption
Adsorption of urea on platinum at low positive potentials: the time dependence and unexpectedly strong effect on the oxidation of uni-carbon particles (Petrii, Vassina) 197
Chloride ions
Specific adsorption of chloride ions in the presence of fluoride ions at the ideally polarized mercury electrode (Hurwitz et al.) 49
Chronopotentiometry
On the electrochemical properties of the Pd + Hg system (Barański et al.) 341
Co-adsorption
Adsorption of urea on platinum at low positive potentials: the time dependence and unexpectedly strong effect on the oxidation of uni-carbon particles (Petrii, Vassina) 197
Cu + Cd alloys
Investigation of phase-transformation kinetics in electrodeposited Cu + Cd alloys using anodic linear sweep voltammetry (Stevanović et al.) 365
Cyclic voltammetry
Investigation of the nature of electrodeposited neutral viologens formed by reduction of the dications (Engelman, Evans) 141

Diffuse-layer model
Some specific features of the effect of multicharged cations on the electroreduction of anions (Damaskin et al.) 1
Diffusion
Diffusion-limited processes on fractal surfaces generated as a set of scaled Walsh functions (Záliš et al.) 443
Diffusion control
Charge-transfer kinetics of a system with weak reactant adsorption studied by the combination of demodulation and impedance voltammetry. Part 1. The $Tl^+/Tl(Hg)$ reaction in 1 M $HClO_4$ at the dropping mercury electrode (Blankenborg et al.) 255

Electric double layer
Some specific features of the effect of multicharged cations on the electroreduction of anions (Damaskin et al.) 1
Electrochemical deposition
Investigation of phase-transformation kinetics in electrodeposited Cu + Cd alloys using anodic linear sweep voltammetry (Stevanović et al.) 365
Electrochemical double layer
Specific adsorption of chloride ions in the presence of fluoride ions at the ideally polarized mercury electrode (Hurwitz et al.) 49
Electrochemical properties
On the electrochemical properties of the Pd + Hg system (Barański et al.) 341
Electrode–electrolyte interface
The adsorption of some benzopyrans at the mercury electrode–aqueous electrolyte interface (Thomas) 81
Electron diffraction
Electrochemical, Auger electron spectroscopy and low energy electron diffraction studies of the stability of the Au(210) electrode surface in the presence of adsorbed pyridine (Sun et al.) 211
Electron Transfer
Kinetics of the electron transfer cross-reaction between $Os(bpy)_3^{3+}$ incorporated in Nafion® coatings on electrodes and $IrCl_6^{3-}$ dissolved in solution. Effects of changes in Donnan potentials on electron transfer rates (Xie, Anson) 325
Electron transfer reactions
On the differences in the magnitude of the observed solvent effect in the kinetics of simple heterogeneous electron transfer reactions (Fawcett, Opallo) 273
Electroreducible surfactants
Adsorption at the mercury electrode in relation to micelle and mixed micelle formation. Case of electroreducible phenoxyalkyl sulfates and SDS (Besombes et al.) 127
Electroreduction
Some specific features of the effect of multicharged cations on the electroreduction of anions (Damaskin et al.) 1

Electroreflectance study
Electroreflectance study of hemin adsorbed on a pyrolytic graphite electrode surface and its coadsorption with methylene blue (Sagara et al.) 159
Electrosorption
$Cl^{\cdot}$ atom electrosorption and recombination at oxide-free and oxide-covered surfaces of Pt anodes, evolving Cl_2 in $CF_3 \cdot COOH$ (Conway, Gu) 233

Fluoride ions
Specific adsorption of chloride ions in the presence of fluoride ions at the ideally polarized mercury electrode (Hurwitz et al.) 49
Formate ion
A note on the adsorption of formate ion at the mercury/aqueous solution interphase (Lawrence, Parsons) 73
Fractal surfaces
Diffusion-limited processes on fractal surfaces generated as a set of scaled Walsh functions (Záliš et al.) 443

n-GaAs/Fe^{2+} electrode
The effect of high LiCl concentrations upon the competition between anodic decomposition and stabilization of the n-GaAs/Fe^{2+} electrode (Strubbe, Gomes) 429
Gallium
Sulphate electrosorption on liquid gallium from water (Innocenti et al.) 113

Heterocoagulation
Heterocoalescence between dispersed organic microdroplets and a charged conductive interface (Žutić et al.) 173
Heterogeneous electron transfer
Short time pulse voltammetric studies of fast heterogeneous electron transfer reactions (Karpinski, Osteryoung) 285

Interfacial condensation
The condensation of 6-propyl-2-thiouracil at the mercury–electrolyte interface (Wandlowski, De Levie) 15
Intermetallic compounds
On the electrochemical properties of the Pd + Hg system (Barański et al.) 341
5 Iodocytosine
Modelling of adsorption isotherms for condensed adsorption films at the metal–electrolyte interface using the Ising lattice gas model (Retter) 41
Ion adsorption
Specific adsorption of chloride ions in the presence of fluoride ions at the ideally polarized mercury electrode (Hurwitz et al.) 49
Irreversible systems
Repetitive cyclic voltammetry of irreversible systems (Andrieux et al.) 299
Ising lattice gas model
Modelling of adsorption isotherms for condensed adsorption films at the metal–electrolyte interface using the Ising lattice gas model (Retter) 41
Ising model
Some properties of two-dimensional condensed layers formed by some terpenoids and adamantane derivatives at the mercury–electrolyte interface (Stenina, Damaskin) 31

Kinetics
Kinetics of the electron transfer cross-reaction between $Os(bpy)_3^{3+}$ incorporated in Nafion® coatings on electrodes and $IrCl_6^{2-}$ dissolved in solution. Effects of changes in Donnan potentials on electron transfer rates (Xie, Anson) 325

LiCl
The effect of high LiCl concentrations upon the competition between anodic decomposition and stabilization of the n-GaAs/Fe^{2+} electrode (Strubbe, Gomes) 429
Linear potential scan voltammetry
On the electrochemical properties of the Pd + Hg system (Barański et al.) 341

Mathematical modelling
Charge-transfer kinetics of a system with weak reactant adsorption studied by the combination of demodulation and impedance voltammetry. Part 1. The $Tl^+/Tl(Hg)$ reaction in 1 M $HClO_4$ at the dropping mercury electrode (Blankenborg et al.) 255
Mercury electrode
Adsorption of acetonitrile on polycrystalline Ag electrodes: comparison with Hg electrodes (Doubova et al.) 187
Mercury–water interface
The condensation of 6-propyl-2-thiouracil at the mercury–electrolyte interface (Wandlowski, De Levie) 15

Metal electrodeposition
Substrate-induced strain of UPD monolayers and two-dimensional–three-dimensional transition in metal electrodeposition (Staikov et al.) 355
Metal–electrolyte interface
Modelling of adsorption isotherms for condensed adsorption films at the metal–electrolyte interface using the Ising lattice gas model (Retter) 41
3-Methylisoquinoline
Coadsorption of 3-methylisoquinoline molecules and perchlorate ions at the mercury–aqueous solution interface (Buess-Herman) 93
Mixed micelles
Adsorption at the mercury electrode in relation to micelle and mixed micelle formation. Case of electroreducible phenoxyalkyl sulfates and SDS (Besombes et al.) 127
Molecular orientation
The adsorption of some benzopyrans at the mercury electrode–aqueous electrolyte interface (Thomas) 81
Monte Carlo technique
Diffusion-limited processes on fractal surfaces generated as a set of scaled Walsh functions (Záliš et al.) 443

Natural convection
Repetitive cyclic voltammetry of irreversible systems (Andrieux et al.) 299
Nicotinic acid
Synergistic coadsorption of nicotinic acid and 3-acetylpyridine as studied by SERS (Barthelmes et al.) 223

Organic microdroplets
Heterocoalescence between dispersed organic microdroplets and a charged conductive interface (Žutić et al.) 173
Oxide-covered surfaces
Cl^- atom electrosorption and recombination at oxide-free and oxide-covered surfaces of Pt anodes, evolving Cl_2 in $CF_3 \cdot COOH$ (Conway, Gu) 233
Oxide-free surfaces
Cl^- atom electrosorption and recombination at oxide-free and oxide-covered surfaces of Pt anodes, evolving Cl_2 in $CF_3 \cdot COOH$ (Conway, Gu) 233

Passivity
On the mechanism of the passivity of aluminum and aluminum alloys (Bockris, Minevski) 375
Pd + Hg system
On the electrochemical properties of the Pd + Hg system (Barański et al.) 341
Perchlorate ions
Coadsorption of 3-methylisoquinoline molecules and perchlorate ions at the mercury–aqueous solution interface (Buess-Herman) 93
Phase-transformation kinetics
Investigation of phase-transformation kinetics in electrodeposited Cu + Cd alloys using anodic linear sweep voltammetry (Stevanović et al.) 365
Phase transition
Substrate-induced strain of UPD monolayers and two-dimensional–three-dimensional transition in metal electrodeposition (Staikov et al.) 355
Photographic emulsions
A modified rotating ring–disc electrode investigation of physico-chemical processes in thin polymer layers (Van der Linden et al.) 311
Physico-chemical processes
A modified rotating ring–disc electrode investigation of physico-chemical processes in thin polymer layers (Van der Linden et al.) 311
Platinized platinum
Adsorption of urea on platinum at low positive potentials: the time dependence and unexpectedly strong effect on the oxidation of uni-carbon particles (Petrii, Vassina) 197
Propyl-2-thiouracil
The condensation of 6-propyl-2-thiouracil at the mercury–electrolyte interface (Wandlowski, De Levie) 15
Pt anodes
Cl^- atom electrosorption and recombination at oxide-free and oxide-covered surfaces of Pt anodes, evolving Cl_2 in $CF_3 \cdot COOH$ (Conway, Gu) 233
Pyridine adsorption
Electrochemical, Auger electron spectroscopy and low energy electron diffraction studies of the stability of the Au(210) electrode surface in the presence of adsorbed pyridine (Sun et al.) 211

Pyrolytic graphite electrode
Electroreflectance study of hemin adsorbed on a pyrolytic graphite electrode surface and its coadsorption with methylene blue (Sagara et al.) 159

Raman spectroscopy
Synergistic coadsorption of nicotinic acid and 3-acetylpyridine as studied by SERS (Barthelmes et al.) 223
Reaction kinetics
Some specific features of the effect of multicharged cations on the electroreduction of anions (Damaskin et al.) 1
On the differences in the magnitude of the observed solvent effect in the kinetics of simple heterogeneous electron transfer reactions (Fawcett, Opallo) 273
Repetitive cyclic voltammetry
Repetitive cyclic voltammetry of irreversible systems (Andrieux et al.) 299
Ring–disc electrode
A modified rotating ring–disc electrode investigation of physico-chemical processes in thin polymer layers (Van der Linden et al.) 311

Short time pulse voltammetry
Short time pulse voltammetric studies of fast heterogeneous electron transfer reactions (Karpinski, Osteryoung) 285
Silver electrode
Adsorption of acetonitrile on polycrystalline Ag electrodes: comparison with Hg electrodes (Doubova et al.) 187
Solar energy conversion
The effect of high LiCl concentrations upon the competition between anodic decomposition and stabilization of the n-GaAs/Fe^{2+} electrode (Strubbe, Gomes) 429
Solvent dynamics
On the differences in the magnitude of the observed solvent effect in the kinetics of simple heterogeneous electron transfer reactions (Fawcett, Opallo) 273
Stabilization
The effect of high LiCl concentrations upon the competition between anodic decomposition and stabilization of the n-GaAs/Fe^{2+} electrode (Strubbe, Gomes) 429
Substrate-induced strain
Substrate-induced strain of UPD monolayers and two-dimensional–three-dimensional transition in metal electrodeposition (Staikov et al.) 355
Sulphate electrosorption
Sulphate electrosorption on liquid gallium from water (Innocenti et al.) 113
Surface-enhanced
Synergistic coadsorption of nicotinic acid and 3-acetylpyridine as studied by SERS (Barthelmes et al.) 223
Sweep voltammetry
Investigation of phase-transformation kinetics in electrodeposited Cu + Cd alloys using anodic linear sweep voltammetry (Stevanović et al.) 365
Synergistic coadsorption
Synergistic coadsorption of nicotinic acid and 3-acetylpyridine as studied by SERS (Barthelmes et al.) 223

Tensammetry
Adsorption at the mercury electrode in relation to micelle and mixed micelle formation. Case of electroreducible phenoxyalkyl sulfates and SDS (Besombes et al.) 127
Terpenoids
Some properties of two-dimensional condensed layers formed by some terpenoids and adamantane derivatives at the mercury–electrolyte interface (Stenina, Damaskin) 31
Thin polymer layers
A modified rotating ring–disc electrode investigation of physico-chemical processes in thin polymer layers (Van der Linden et al.) 311
Three-dimensional films
Substrate-induced strain of UPD monolayers and two-dimensional–three-dimensional transition in metal electrodeposition (Staikov et al.) 355
$Tl^+/Tl(Hg)$ reaction
Charge-transfer kinetics of a system with weak reactant adsorption studied by the combination of demodulation and impedance voltammetry. Part 1. The $Tl^+/Tl(Hg)$ reaction in 1 M $HClO_4$ at the dropping mercury electrode (Blankenborg et al.) 255
Two-dimensional condensation
Some properties of two-dimensional condensed layers formed by some terpenoids and adamantane derivatives at the mercury–electrolyte interface (Stenina, Damaskin) 31

Two-dimensional films
Substrate-induced strain of UPD monolayers and two-dimensional–three-dimensional transition in metal electrodeposition (Staikov et al.) 355

UPD monolayers
Substrate-induced strain of UPD monolayers and two-dimensional–three-dimensional transition in metal electrodeposition (Staikov et al.) 355

Urea
Adsorption of urea on platinum at low positive potentials: the time dependence and unexpectedly strong effect on the oxidation of uni-carbon particles (Petrii, Vassina) 197

Viologen reduction
Investigation of the nature of electrodeposited neutral viologens formed by reduction of the dications (Engelman, Evans) 141

Walsh functions
Diffusion-limited processes on fractal surfaces generated as a set of scaled Walsh functions (Záliš et al.) 443

Weak adsorption
Charge-transfer kinetics of a system with weak reactant adsorption studied by the combination of demodulation and impedance voltammetry. Part 1. The $Tl^+/Tl(Hg)$ reaction in 1 M $HClO_4$ at the dropping mercury electrode (Blankenborg et al.) 255

Zwitterions
Synergistic coadsorption of nicotinic acid and 3-acetylpyridine as studied by SERS (Barthelmes et al.) 223